

What is claimed is:

1. A photo-sensor for detecting signal rays comprising:

a substrate;

5 a light-sensitive element mounted on the substrate;

an encapsulation resin encapsulating the light-sensitive element;

a filter layer mounted on at least a surface of the encapsulation resin;

10 characterized in that

the filter layer has a filtering effect corresponding to spectral responsivity of the light-sensitive element.

2. The photo-sensor according to claim 1 wherein the filter layer comprises a metal multilayer filter.

15 3. The photo-sensor according to claim 1 wherein the filter layer comprises a dielectric multilayer filter.

4. A method for manufacturing a plurality of photo-sensors comprising the steps of:

20 preparing a substrate aggregation having a plurality of divisions;

mounting a light-sensitive element on the substrate aggregation at each division;

encapsulating the light-sensitive elements by encapsulating resin to form a resin layer;

25 forming a filter layer on the resin layer to form a light-sensitive element aggregation; and

dicing the aggregation at boundaries between divisions, thereby producing a plurality of independent

light-sensitive elements.